

INTERNATIONAL SEARCH REPORT

National Application No
PCT/EP2004/001796

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 F16N29/02 G01N21/53 G01N33/28 F16N29/04 G01N21/85

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F16N G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 43 41 466 A (GUMMLICH HARALD DIPL ING) 8 June 1995 (1995-06-08) column 2, line 39 -column 4, line 67; figure 1	1-22
X	----- PATENT ABSTRACTS OF JAPAN vol. 015, no. 032 (M-1073), 25 January 1991 (1991-01-25) & JP 02 271197 A (NIPPON SEIKO KK), 6 November 1990 (1990-11-06) Figure abstract ----- -/-	1-22

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

25 May 2004

Date of mailing of the international search report

16/06/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Consalvo, D

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 012, no. 083 (M-677), 16 March 1988 (1988-03-16) & JP 62 223406 A (TOSHIBA CORP), 1 October 1987 (1987-10-01) Figure abstract	1-22
A	DE 37 10 920 A (HYDRAULIK ZUBEHOER GES FUER) 20 October 1988 (1988-10-20) column 4, line 7 - line 44; figures 2-4	1-22

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4341466	A	08-06-1995	DE 4341466 A1	08-06-1995
JP 02271197	A	06-11-1990	NONE	
JP 62223406	A	01-10-1987	NONE	
DE 3710920	A	20-10-1988	DE 3710920 A1	20-10-1988
			DE 3744818 C2	25-04-1991